

AD-A165 451

SOFTWARE DOCUMENTATION ON THE URDB MODIFICATIONS TO
INCORPORATE INFORMATI. (U) N/A-COM LINKABIT INC VIENNA
VA S KEYSER ET AL. 15 OCT 85 159 DCA/H50-85-129

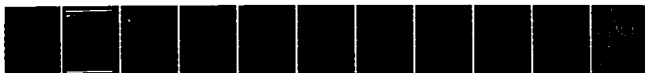
1/1

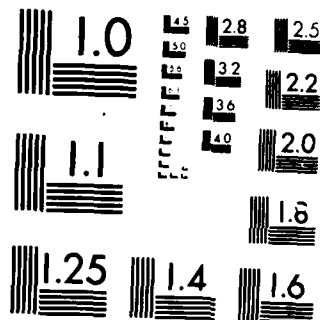
UNCLASSIFIED

DCA100-84-C-0009

F/G 9/2

NL





MICROCOPY RESOLUTION TEST CHART
 NATIONAL BUREAU OF STANDARDS-1963-A

2



TELECOMMUNICATIONS DIVISION

AN INTEGRATION OF M/A COM LINKABIT AND M/A COM DCC

GOVERNMENT SYSTEMS GROUP

8619 WESTWOOD CENTER DRIVE
VIENNA, VA 22180

M/A-COM LINKABIT, Inc.

Log # MSO-85-129

Copy # 10

AD-A165 451

**SOFTWARE DOCUMENTATION ON THE
URDB MODIFICATIONS TO INCORPORATE
INFORMATION COLLECTED IN POST-DSCS
AND UHF STUDIES**

**Final Report 159
Task MSO85-7**

October 1985

**Prepared by M/A-COM LINKABIT, Inc.
Under Contract DCA100-84-C-0009**

**Submitted to
Defense Communications Agency
Center for Command and Control,
and Communications Systems, Code A800
8th & S. Courthouse Road
Arlington, VA 22204**

DTIC FILE COPY

This document has been approved
for release by the
Department of Defense

DTIC
RECEIVED
NOV 17 1985



MILSATCOM SYSTEMS OFFICE

SOFTWARE DOCUMENTATION ON THE URDB MODIFICATIONS TO INCORPORATE INFORMATION COLLECTED IN POST-DSCS AND UHF STUDIES

Approved for Release	<input checked="" type="checkbox"/>
<i>form 50 per</i>	
<i>A-1</i>	



DCA Control No. _____
DCS MSO Code A800
October 1985

CHAPTER 1

INTRODUCTION

In 1984, much information was collected by the MSO for Post-DSCS, UHF, and Milstar studies. As a result of these collections, two items were identified by the MSO to be added to the User Requirements Data Base (URDB) files that would be helpful in building future architectures. Femme Comp, Inc., subcontracting to M/A-COM LINKABIT, was tasked with this effort.

CHAPTER 2

URDB CHANGES

The first step in adding data elements to a data base at DCA is to request a DBGEN change through Code N331. A copy of DCA form 319, which was sent requesting this action, is shown in Figure 2-1. Work has been completed on this modification.

The new data elements being added to the URDB are "Service Outages Tolerable" and "Duration of Survivability of Supported Mission." These two single-character elements are identified in the "TOTAL" data base NVUQ A1 record as "NVUQSOTO" and "NVUQDSSV," respectively. The filler data element "NVUQFAIR" was reduced to 8 characters to make room for these new elements.

Concurrent with Code N331's modifications to the DBGEN, Femme Comp, Inc., programmers completed changes to the URDB software. The following URDB programs have been modified to accept new data elements in the system:

- o ZRDBUPDT (URDB update program)
- o ZRDBTRAN (URDB transaction report generation program)
- o ZRDBINPT (URDB data input program).

Simple modifications to identify the new data elements were made to the ZRDBUPDT and ZRDBTRAN programs. Extensive coding was added to the URDB data input program ZRDBINPT to add two new display screens. These two new screens can be used for both the entry of new requirements and for the editing of requirements already in the data base.

The screen for the "Service Outages Tolerable" data element will carry number 7A and will follow screen 7 in the display series. The "Duration of Survivability of Supported

AD-A165 451

REQUEST FOR AOP SERVICES (REF DCAI 630 230 15)		1. CONTROL NUMBER										
2. FROM (Name, Office code, Telephone no.) Code 4900 Tel: 20280		3. TO (See appropriate Enclosure of ref.) Code N331 T-PII: Code 632										
4. PRODUCT TITLE Addition of two data elements to the MSO User Requirements Data Base (URDB)												
5. TYPE OF SERVICE REQUIRED (check appropriate block)		6. SECURITY CLASSIFICATION UNCLASSIFIED										
<input type="checkbox"/> ONE TIME RETRIEVAL/EXTRACT (see Enclosure 2) <input type="checkbox"/> KEY PUNCH/COMPUTER TIME (see Enclosure 3) <input type="checkbox"/> PROGRAM MODIFICATION (see Enclosure 4) <input type="checkbox"/> FILE DEVELOPMENT/MODIFICATION (see Enclosure 5) <input checked="" type="checkbox"/> NEW, RECURRING OR AS REQUIRED REPORT (see Enclosure 6)		7. AS OF DATE 26 July 1985	8. PERIOD COVERED									
		9. DATE REQUIRED 9 Sept 85	10. FREQUENCY									
		11. EXPIRATION DATE	12. NO OF COPIES									
13. DISTRIBUTION												
14. STATEMENT OF REQUIREMENT 1. Request the necessary action be taken to incorporate the following two fields into the MSO portion of the NGMRCL DBGEN on all systems (X1 through X4, Headquarters and equivalent systems in field offices): <table style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;"><u>FIELD NAME</u></th> <th style="text-align: left;"><u>LABE</u></th> <th style="text-align: left;"><u>LENGTH</u></th> </tr> </thead> <tbody> <tr> <td>Service Outages Tolerable</td> <td>NVUQSOTO</td> <td>One character code</td> </tr> <tr> <td>Duration of Survivability</td> <td>NVUQDSSM</td> <td>One character code</td> </tr> </tbody> </table> <p>2. These items are to be located in the NVUQ variable file, A1 record. There is presently a filler element of 10 characters, NVUQFA1R, which is to be used as room for expansion. The two additional elements should utilize the first two characters of this filler field, and NVUQFA1R should be changed to 8 characters, to eliminate the need for any unloading/reloading of TOTAL files. The data will be loaded with the MSO's update software by A800 personnel or contractors.</p> <p style="text-align: right;">(continue on next page)</p>				<u>FIELD NAME</u>	<u>LABE</u>	<u>LENGTH</u>	Service Outages Tolerable	NVUQSOTO	One character code	Duration of Survivability	NVUQDSSM	One character code
<u>FIELD NAME</u>	<u>LABE</u>	<u>LENGTH</u>										
Service Outages Tolerable	NVUQSOTO	One character code										
Duration of Survivability	NVUQDSSM	One character code										
15. JUSTIFICATION PURPOSE The MSO URDB was established and is being maintained in accordance with DoD Directive 5105.44, dated 9 October 1973. Upgrade of the URDB from a flat file to TOTAL Data Set in the WWOLS was accomplished in June 1984. In addition to enhancing the automation capabilities and amount of information, this new format was designed to provide the flexibility TOTAL affords for change and growth. Subsequent to the implementation of the new URDB, the MSO initiated two major architectural efforts to define Post FLTSAT/LEASAT and Post DSCS III system concepts. These efforts have identified two additional elements needed in the data base.												
16. AUTHORIZED BY (Name and title) EUGENE B. DAVIS, CAPT, USN Assistant Deputy Director MSO		17. SIGNATURE										
		18. DATE										

FORM 318 JUN 72

5101170

Figure 2-1. Sample DBGEN Change Report (1 of 2)

(cont: Statement of Requirement)

Since this change affects all DBGENS both here and at the area centers as well as the software scheduled for dissemination, request you postpone the following 319's to coincide with the completion of this task:

<u>319 Number</u>	<u>Description</u>
330-4231	Size of files - expansion
330-5059	dissemination of software to area centers.

510118 0

Figure 2-1. Sample DBGEN Change Report (2 of 2)

Mission" screen will carry number 9A and will follow screen 9. After the user enters data, the data will be validated against appropriate tables.

These new screens--7A and 9A--will use the same format as the other 12 screens in helping the user enter the data as well as doing the same type of error checking shown in Figures 2-2 and 2-3.

```

*** MILSATCOM URDB UPDATE SCREEN SEVENA ***

SERVICE OUTAGE TOLERABLE (PER DAY) (ENTER APPROPRIATE CODE): _

A - 5 MINUTES OR LESS
B - 5-10 MINUTES
C - 10-15 MINUTES
D - 15-30 MINUTES
E - 30-60 MINUTES
F - 60-120 MINUTES
G - 2-4 HOURS
H - 4-6 HOURS

PF3-QUIT      PF1-HELP      PF8-CANCEL

```

Figure 2-2. Screen 7A Format

```

*** MILSATCOM URDB UPDATE SCREEN NINEA ***

DURATION OF SURVIVABILITY OF SUPPORTED MISSION
( SELECT ONE OF THE BELOW CODES ) _

A - PEACETIME ONLY
B - CRISIS
C - CONVENTIONAL WAR
D - TRANS-ATTACK
E - POST-ATTACK/RECONSTITUTION

PF3-QUIT      PF1-HELP      PF8-CANCEL

```

Figure 2-3. Screen 9A Format

510119 0

UNCLASSIFIED

SECURITY CLASSIFICATION OF THIS PAGE

REPORT DOCUMENTATION PAGE

1a. REPORT SECURITY CLASSIFICATION UNCLASSIFIED		1b. RESTRICTIVE MARKINGS	
2a. SECURITY CLASSIFICATION AUTHORITY N/A		3. DISTRIBUTION/AVAILABILITY OF REPORT	
2b. DECLASSIFICATION/DOWNGRADING SCHEDULE N/A			
4. PERFORMING ORGANIZATION REPORT NUMBER(S) LINKABIT Report 159 Log No. MSO-85-129		5. MONITORING ORGANIZATION REPORT NUMBER(S)	
6a. NAME OF PERFORMING ORGANIZATION M/A-COM LINKABIT, Inc.	6b. OFFICE SYMBOL (if applicable)	7a. NAME OF MONITORING ORGANIZATION Defense Communications Agency MILSATCOM Systems Office, Code A800	
6c. ADDRESS (City, State and ZIP Code) 8019 Westwood Center Drive Vienna, VA 22180		7b. ADDRESS (City, State and ZIP Code) Washington, D.C. 20305-2000	
8a. NAME OF FUNDING/SPONSORING ORGANIZATION Defense Communications Agency	8b. OFFICE SYMBOL (if applicable) A800	9. PROCUREMENT INSTRUMENT IDENTIFICATION NUMBER	
8c. ADDRESS (City, State and ZIP Code) 8th & S. Courthouse Road Arlington, VA 22204		10. SOURCE OF FUNDING NOS.	
		PROGRAM ELEMENT NO.	PROJECT NO.
		TASK NO.	WORK UNIT NO.
11. TITLE (Include Security Classification) Software Documentation on the URDB Modifications to Incorporate Information Collected in Post-DSCS and UHF Studies U			
12. PERSONAL AUTHOR(S) S. Keyser, D. Eversmeyer (Femme Comp, Inc.)			
13a. TYPE OF REPORT Final	13b. TIME COVERED FROM 7/15/85 TO 10/14/85	14. DATE OF REPORT (Yr., Mo., Day) 1985 October 15	15. PAGE COUNT 6
16. SUPPLEMENTARY NOTATION			
17. COSATI CODES		18. SUBJECT TERMS (Continue on reverse if necessary and identify by block number)	
FIELD	GROUP	SUB GR	
		URDB, MURS, Post-DSCS, UHF Studies	
19. ABSTRACT (Continue on reverse if necessary and identify by block number)			
(U) This documentation has been produced to provide system managers and programmers with the information necessary to understand the URDB modifications to incorporate information collected in the Post-DSCS and UHF studies. This document is intended to be used as a supplement to the MILSATCOM User Requirements System (MURS) URDB Program Maintenance Manual (November 1984), which defines other MURS software that is used in this system.			
20. DISTRIBUTION/AVAILABILITY OF ABSTRACT UNCLASSIFIED/UNLIMITED <input type="checkbox"/> SAME AS RPT <input type="checkbox"/> DTIC USERS <input type="checkbox"/>		21. ABSTRACT SECURITY CLASSIFICATION	
22a. NAME OF RESPONSIBLE INDIVIDUAL Col. T. Thomas	22b. TELEPHONE NUMBER (Include Area Code) (202) 692-0280	22c. OFFICE SYMBOL A820	

END
FILMED

4-86

DTIC